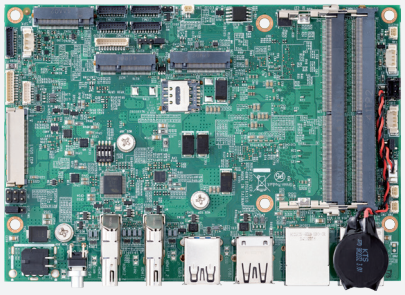
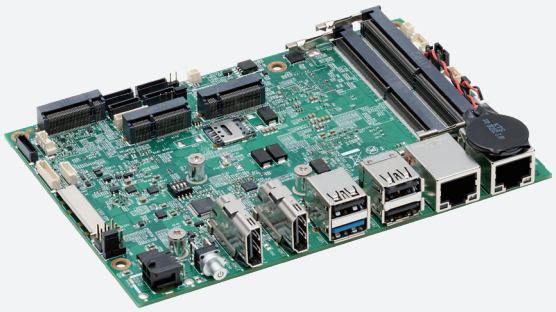
X202

3.5" Embedded Computing Board
Powered by 13th Gen Intel® Core™ i Processor





Main Features

- 13th Gen Intel® Core™ i processor
- Support Intel® AMT technology
- 2 x DDR5 SO-DIMM, up to 96GB
- 2 x HDMI® 1.4 output, up to 4096x2160@30Hz
- 2 x Intel® LAN port
- 1 x USB 3.2 Gen 1x1, 3 x USB 2.0
- TPM 2.0 for security
- 1 x M.2 Key B 3052/2242 for an optional 5G/LTE module
- 1 x M.2 Key E 2230 for an optional Wi-Fi module
- 1 x M.2 Key M 2280 for an optional SSD
- Support DC +12V power input

Product Overview

Powered by the 13th Gen Intel® Core™ i processor, the X202, a new Duro Edge computing system, can handle very rich multimedia contents. With built-in CEC and EDID, the monitors can be remotely controlled via the X202. The X202 emulates EDID across two independent HDMI® 1.4 displays, ensuring accurate resolution and refresh rate detection for seamless integration. Supporting resolutions up to 4096 x 2160 at 30Hz, the X202 delivers a crystal-clear and consistent viewing experience ideal for industrial and professional applications. With the CEC function, a single remote can control multiple HDMI® devices.

With the Intel® processor's low power consumption and new Intel® Xᵉ-LP graphics architecture, the platform delivers powerful graphics offering stunning visuals for compelling 4K content creation and media playback. In addition, the X202 supports display output by HDMI® and USB ports with flexible integration for various applications. The X202 is an embedded board with extended temperature durability, making it suitable for other semi-outdoor usage in locations such as QSR drive through kiosks, information stands, bus stops, or digital transit information signs.

Specifications

Processor

- Intel® Core™ i7-1365UE processor, TDP 15W
- Intel® Core™ i5-1345UE processor, TDP 15W
- Intel® Core™ i5-1335UE processor, TDP 15W
- Intel® Core™ i3-1315UE processor, TDP 15W

* Only 1365UE/1345UE supports the Intel® AMT

Memory

- 2 x DDR5 5200 SO-DIMM, non-ECC, unbuffered, up to 96GB

Integrated Graphics

- Intel® Graphics

Display Interface

- 2 x HDMI® 1.4, up to 4096x2160@30Hz

Storage

- 1 x M.2 Key M 2280 for an optional SSD (PCIe 3.0 x4, SATA 3.0)

Expansion Slot

- 1 x M.2 Key E 2230 for an optional Wi-Fi module
- 1 x M.2 Key B 3052/2242 for an optional 5G/LTE module (PCIe 3.0 x1, USB 3.2, USB 2.0)

I/O Interface Side

- 1 x Power button with LED
- 2 x HDMI® 1.4, up to 4096x2160@30Hz
- 1 x 2.5GbE RJ45 port, Intel® I226
- 1 x 1GbE RJ45 port, Intel® I219
- 1 x USB 3.2 Gen 1x1, Type-A
- 3 x USB 2.0
- DC +12V power input

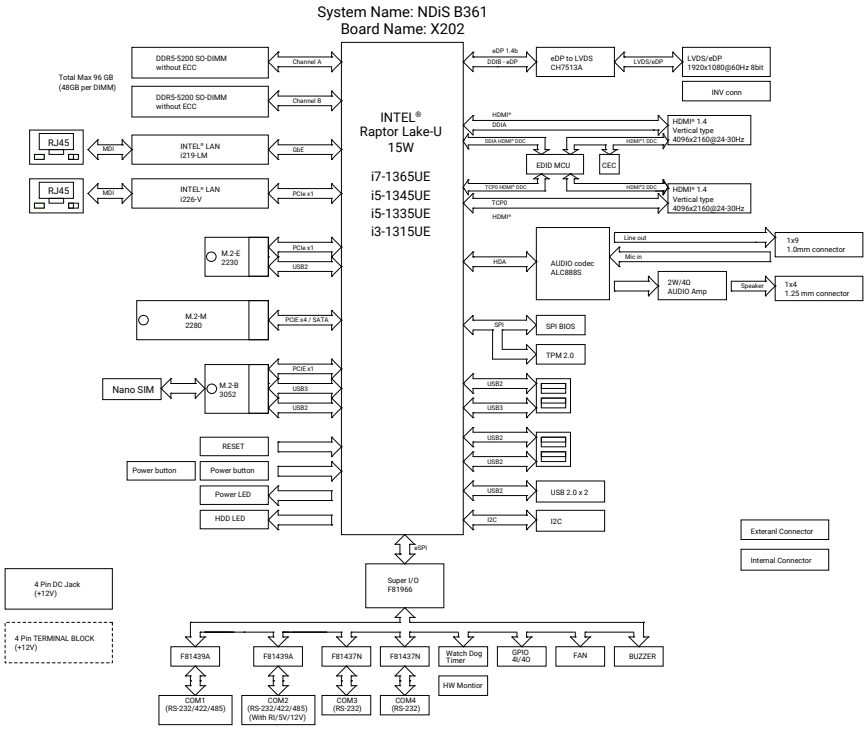
I/O Interface Internal

- 1x 2-pin EDID connector
- 1 x eDP/LVDS connector, resolution up to 1920x1200@60Hz
- 2 x 6-pin header for USB 2.0 ports
- 2 x 9-pin header for COM port, RS-232/422/485
- 2 x 9-pin header for COM port, RS-232
- 1 x 10-pin header for GPIO, 4 x DI, 4 x DO
- 1 x 4-pin header for 2W/4Ω speaker out
- 1 x 9-pin header, supports mic in and line out
- 1 x 2-pin header for reset

Mechanical

- Dimensions: 146mm (W) x 102mm (D) (5.7" (W) x 4.0" (D))

Block Diagram



Power Supply

- Nominal voltage: DC +12V power input

Environment

- Temperature
  - Ambient with air flow: -20°C~70°C
  - Storage temperature: -20°C~85°C
- Relative humidity: 0%~90% (non-condensing)
- Shock protection: 50G peak acceleration, 11ms according to IEC 60068-2-27
- Vibration protection
  - Random: 2Grms@5Hz~500Hz, IEC 60068-2-64
  - Sinusoidal: 2G@5Hz~500Hz, IEC 60068-2-6

Operating System

- Windows 11
- Windows 10, 64bit
- Linux

Certifications

- CE approval (EN 50035 + EN 50032)
- FCC Class A (Part 15B)

Ordering Information

- **X202-1365UE (P/N: 10W10X20200X0)**
  Main board with Intel® Core™ i7-1365UE processor
- **X202-1345UE (P/N: 10W10X20201X0)**
  Main board with Intel® Core™ i5-1345UE processor
- **X202-1335UE (P/N: 10W10X20202X0)**
  Main board with Intel® Core™ i5-1335UE processor
- **X202-1315UE (P/N: 10W10X20203X0)**
  Main board with Intel® Core™ i3-1315UE processor

We reserve the right to change specifications and product descriptions at any time without prior notice.